Answer on Question#37392 - Chemistry - Inorganic Chemistry

 $NaOH + HCI \rightarrow NaCI + H_2O$

The amount of HCl is:

 $n = C \cdot V = 0.5 M \cdot 0.025 I = 0.0125 mol$

As we see from the reaction equation, the amount of substance of NaOH required to neutralize 0.0125 mol of HCl is the same.

So, mass of NaOH is

 $m = n \cdot M = 0.0125 mol \cdot 40 g/mol = 0.5 g$

Answer: 0.5g